

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Original) A method for improving performance of a digital subscriber line comprising:

determining a status of a telephone hookswitch;

determining whether retraining is indicated; and

determining whether power level adjustment is indicated.

2. (Original) The method of claim 1 further comprising:

initiating a retraining routine; and

adjusting a power level.

3. (Original) The method of claim 2 wherein said step of determining whether said retraining is indicated occurs in response to said step of determining said status of said telephone hookswitch.

4. (Original) The method of claim 3 wherein said step of determining said status of said telephone hookswitch further comprises determining whether said status of said telephone hookswitch has changed.

5. (Original) The method of claim 3 further comprising the steps of:

determining whether a different modem configuration profile is appropriate; and

said first modem and said second modem resuming normal communication after said step of performing measurement of said echo testing signal.

17. (Original) A method for determining whether retraining is indicated comprising:

obtaining line quality information comprising a hookswitch status, a channel transfer function, and an echo measurement; and

determining whether said line quality information indicates retraining is needed.

18. (Original) The method of claim 17 wherein said step of obtaining line quality information further comprises obtaining an error rate, a noise margin, and a change in noise margin.

19. (Canceled)

20. (Previously Presented) A method for reducing distortion on a digital subscriber line comprising:

performing a channel loss measurement on said digital subscriber line;

determining a minimum required signal level; and

adjusting a signal level on said digital subscriber line to remain above said minimum required signal level, wherein said adjusting step occurs in response to a telephone hookswitch changing from being in an on-hook state to being in an off-hook state.

21. (Currently Amended) The method of claim ~~19~~ 20 wherein said step of adjusting said signal level occurs according to a user selection from among multiple signal level settings.

22. (Original) A method for estimating telephone hookswitch status comprising:
periodically initiating detection routines;
determining whether a change in modem performance has occurred; and
characterizing said change in modem performance as an indication of change in said
telephone hookswitch status.

23. (Original) A method for controlling a modem comprising the steps of:
detecting a hookswitch state and a presence of an inline filter; and
optimizing modem parameters based on said hookswitch state and said presence of
said inline filter.

24. (Original) The method of claim 23 further comprising the step of:
retraining said modem.

25. (Original) The method of claim 24 further comprising the step of:
initializing said modem.

26. (Original) A method for determining a need for retraining a modem comprising
the steps of:

determining a hookswitch state;
obtaining line quality information;
determining if said line quality information suggests a need for retraining;
determining if a channel response has changed; and

